

## ABSTRACT

A scattering medium measuring apparatus is composed of: a measuring module 1 having an irradiation probe 11 and detection probes 61 and 71; and a measuring module 2 having an irradiation probe 21 and detection probes 81 and 91. There is also provided an optical delay device 22 between a pulse light source 30 as a common light source for the irradiation probes 11 and 21 and the irradiation probe 21 so that pulse light is irradiated successively from the irradiation probes 11 and 21. A trigger circuit 50 is adapted to instruct the light source 30 on the irradiation timing of pulse light and signal processing circuits 62 to 92 corresponding to the detection timing of the corresponding light synchronized with the irradiation timing. This can achieve a scattering medium measuring apparatus and measuring method capable of suppressing crosstalk between channels without a spatial restriction.